

OHS13340

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MDL INFORMATION SYSTEMS, INC.
1281 Murfreesboro Road, Suite 300
Nashville, TN 37217-2423
1-615-366-2000

EMERGENCY TELEPHONE NUMBER:
1-800-424-9300 (NORTH AMERICA)
1-703-527-3887 (INTERNATIONAL)

SUBSTANCE: MAGNESIUM CARBONATE

TRADE NAMES/SYNONYMS:

CARBONIC ACID, MAGNESIUM SALT; CARBONATE MAGNESIUM; MAGNESIUM CARBONATE
(MgCO₃); MAGNESIUM CARBONATE (1:1); CARBONIC ACID, MAGNESIUM SALT (1:1);
MAGNESIUM(II) CARBONATE; MAGNESIA ALBA; MAGNESITE; C.I. 77713; CMgO₃;
OHS13340; RTECS OM2470000

CHEMICAL FAMILY: inorganic, salt

CREATION DATE: Jan 30 1985

REVISION DATE: Mar 18 2002

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: MAGNESIUM CARBONATE
CAS NUMBER: 546-93-0
EC NUMBER (EINECS): 208-915-9
PERCENTAGE: 100.0

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=0

EMERGENCY OVERVIEW:

COLOR: white

PHYSICAL FORM: crystalline powder

ODOR: odorless

MAJOR HEALTH HAZARDS: No significant target effects reported.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: irritation

SKIN CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information is available

EYE CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: irritation

INGESTION:

SHORT TERM EXPOSURE: nausea, vomiting, diarrhea, stomach pain, headache, dizziness

LONG TERM EXPOSURE: no information on significant adverse effects

CARCINOGEN STATUS:

OSHA: No

NTP: No

IARC: No

SECTION 4 FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If a large amount is swallowed, get medical attention.

ANTIDOTE: calcium gluconate, intravenous.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Collect spilled material in appropriate container for disposal.

SECTION 7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Store in a tightly closed container. Keep separated from incompatible substances.

HANDLING: Use methods to minimize dust.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

MAGNESIUM CARBONATE:

- 5 mg/m3 OSHA TWA (respirable dust fraction)
- 15 mg/m3 OSHA TWA (total dust)
- 10 mg/m3 ACGIH TWA (no asbestos and <1% crystalline silica)
- 10 mg/m3 NIOSH recommended TWA 10 hour(s) (total particulate)
- 5 mg/m3 NIOSH recommended TWA 10 hour(s) (respirable fraction)
- 10 mg/m3 UK OES TWA (total inhalable dust)
- 4 mg/m3 UK OES TWA (respirable dust)

MEASUREMENT METHOD: Particulate filter; Gravimetric; NIOSH IV # 0500
Nuisance Dust (total), # 0600 (respirable)

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.
Any dust, mist, and fume respirator.
Any air-purifying respirator with a high-efficiency particulate filter.

Any powered, air-purifying respirator with a dust, mist, and fume filter.
Any powered, air-purifying respirator with a high-efficiency particulate filter.
For Unknown Concentrations or Immediately Dangerous to Life or Health -
Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Any self-contained breathing apparatus with a full facepiece.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid
COLOR: white
PHYSICAL FORM: crystalline powder
ODOR: odorless
MOLECULAR WEIGHT: 84.31
MOLECULAR FORMULA: Mg-CO_3
BOILING POINT: Not applicable
MELTING POINT: Not available
DECOMPOSITION POINT: 662 F (350 C)
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable
SPECIFIC GRAVITY (water=1): 2.958
WATER SOLUBILITY: 0.0106% @ 20 C
PH: weakly basic
VOLATILITY: Not applicable
ODOR THRESHOLD: Not available
EVAPORATION RATE: Not applicable
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available
SOLVENT SOLUBILITY:
Soluble: carbonated water, acids
Insoluble: ethanol, acetone, ammonia

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.
CONDITIONS TO AVOID: None reported.
INCOMPATIBILITIES: acids, combustible materials
MAGNESIUM CARBONATE:
ACIDS: Effervesces, causing excessive pressure in closed containers.
FORMALDEHYDE: Incompatible.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of carbon, oxides of magnesium

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

MAGNESIUM CARBONATE:

TOXICITY DATA:

16 mg/kg intravenous-mouse LD50

ACUTE TOXICITY LEVEL: Insufficient Data.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: kidney disorders

ADDITIONAL DATA: Interactions with drugs may occur.

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

MAGNESIUM CARBONATE: May cause irritation of the upper respiratory tract.

CHRONIC EXPOSURE:

MAGNESIUM CARBONATE: Repeated exposure may cause nasal catarrh.

SKIN CONTACT:

ACUTE EXPOSURE:

MAGNESIUM CARBONATE: May cause irritation and dermatitis.

CHRONIC EXPOSURE:

MAGNESIUM CARBONATE: No data available.

EYE CONTACT:

ACUTE EXPOSURE:

MAGNESIUM CARBONATE: May cause irritation.

CHRONIC EXPOSURE:

MAGNESIUM CARBONATE: Repeated exposure may cause conjunctivitis.

INGESTION:

ACUTE EXPOSURE:

MAGNESIUM CARBONATE: May cause headache, nausea, vomiting, dizziness, and gastrointestinal irritation. Ingestion of a large amount of magnesium salts may cause diarrhea and abdominal pain. More serious symptoms of hypermagnesemia, such as electrolyte imbalance, central nervous system depression and neurological and cardiac impairment, are rare in the absence of intestinal or renal disease since magnesium is poorly absorbed from the gastrointestinal tract and readily excreted by the kidneys.

CHRONIC EXPOSURE:

MAGNESIUM CARBONATE: Magnesium preparations may cause phosphorus depletion syndrome.

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

SECTION 14 TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15 REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):
Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):
Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):
ACUTE: No
CHRONIC: No
FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Not determined.

EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED): Not determined.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

SECTION 16 OTHER INFORMATION

MSDS SUMMARY OF CHANGES

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
SECTION 3	HAZARDS IDENTIFICATION
SECTION 6	ACCIDENTAL RELEASE MEASURES
SECTION 7	HANDLING AND STORAGE
SECTION 10	STABILITY AND REACTIVITY
SECTION 11	TOXICOLOGICAL INFORMATION

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